PAT-NO: JP407020896A

DOCUMENT-IDENTIFIER: JP 07020896 A

TITLE: VOICE EXCITATION SIGNAL
                        CODING METHOD

PUBN-DATE: January 24, 1995

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APPL-NO: JP05165582

APPL-DATE: July 5, 1993

INT-CL (IPC): G10L009/14 , G10L009/18

ABSTRACT:

   PURPOSE: To reduce distortion while reducing
the amount of computations by obtaining noise
excitation vector energy terms through simple
inner products of the parameter vectors, which are
binominal products of the coefficients of impulse
responses or their linear sums, and regression
coefficient vectors made for every noise
excitation vector beforehand stored corresponding

to the parameter vectors.

   CONSTITUTION: A coding table 11 which consists of conventional m number of n dimensional noise excitation vectors, a table 21 containing regression coefficients for every noise excitation vector and a means 22 which generates energy estimation parameters by linear combination of binominal products of impulse response series for every coefficient are provided. Energy values are obtained by the inner products of the estimated parameters and the regression coefficients of the table 21. Since pre or main selections are made by obtaining the energy terms through binominal products of the impulse responses or their linear sum and the regression coefficients, the amount of computations is reduced and high precision excitation signal coding is obtained.

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